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REMARKS

Claims 1-2, 4-13 and 23-53 are all the claims presently pending in the application. Claims 1, 4, 5, 23, 38, 40, 42 and 48 have been amended to more particularly define the invention.

It is noted that the claim amendments are made only for more particularly pointing out the invention, and not for distinguishing the invention over the prior art, narrowing the claims or for any statutory requirements of patentability. Further, Applicant specifically states that no amendment to any claim herein should be construed as a disclaimer of any interest in or right to an equivalent of any element or feature of the amended claim.

Claims 31 and 32 stand rejected under 35 U.S.C. § 112, first paragraph as allegedly failing to comply with the enablement requirement. However, Applicant would point out that the specification states that Figure 44 illustrates "an example of effecting the continuous enlargement operation by dragging plural articles" (Application at col. 36, lines 14-16), and in particular states that the continuous enlarging operation involves first displaying article information 82A, then article information 82B, then article information 82C (Application at col. 36, lines 39-45). Therefore, these claims are clearly enabled and the Examiner is respectfully requested to withdraw this rejection.

Claims 24 and 49-51 stand rejected under 35 U.S.C. § 112, second paragraph as allegedly being indefinite. With respect to claim 24, Applicant would point out that claim 24 recites "...in the other tag display area where a tag ... is not displayed", which is clear and not indefinite. With respect to claim 49, Applicant notes that claim 49 has been amended to address the Examiner's concerns. Therefore, these claims are clear and not indefinite, and the Examiner is respectfully requested to withdraw this rejection.

Further, Applicant notes that claims 49-51 are not subject to a prior art rejection and, therefore, claims 49-51 are in condition for immediate allowance.

Claims 1-6, 12-13, 23, 28, 38, 40-41 and 46-47 stand rejected under 35 U.S.C. § 102(b) as allegedly being unpatentable over Henckel et al. (US Pat. 5,463,725). Claims 7-11, 25-27 and 48 stand rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Henckel in view of Amro et al. (US Pat. 6,278,443). Claims 29-30, 34-37 and 39 stand rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Henckel in view of Huffman et al. (US Pat. 5,663,748).

Claim 33 stands rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable

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over Henckel in view of Huffman and further in view of Kuzunuki et al. (U. S. Patent No. 6,266,057). **Claims 42-45** stand rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Henckel in view of Lovett et al. (US Pat. 7,134,072).

These rejections are respectfully traversed in view of the following discussion.

I. EXEMPLARY ASPECT OF THE CLAIMED INVENTION

An exemplary aspect of the claimed invention (e.g., as recited in claim 1) is directed to a page information display method for displaying the electronic information using an information access device including a storage unit for storing the electronic information having plural pages of information in a unit of page of predetermined size, a display unit for displaying the electronic information stored in the storage unit in the unit of page, and an operation unit for inputting an operation to gain access to the page information, the operation unit being provided in the substantially same area as the display unit, including a page turning operation detecting step of outputting a page turning operation detecting signal when a dragging is made on the operation unit in parallel or anti-parallel to a predefined page turning direction at a current page read from the storage unit that is to be displayed at present; a next display page setting step of setting a preceding page or a succeeding page immediately before or after the current page depending on a direction of the dragging operation to a next display page to be displayed at the next time, when the page turning operation detecting signal is output in the page turning operation detecting step, and a page turning process step of displaying the next display page set in the next display page setting step in place of the current page on the display unit,

Importantly, <u>the page turning operation detecting step includes an operation rate calculating substep of calculating a page turning rate that is a speed of the page turning operation, and the page turning process step includes a display rate setting substep of setting a display rate corresponding to the page turning rate calculated in the operation rate calculating step to change the display from the current page to the next display page</u> (Application at paragraph [0096]).

Another exemplary aspect of the claimed invention (e.g., as recited in claim 6) includes <u>a holding page number displaying step of displaying the total number of holding pages in accordance with the amount of the page holding operation on the display unit, when the page holding operation is initially detected in the page holding operation detecting step.</u>

Another exemplary aspect of the claimed invention (e.g., as recited in claim 23) includes a following the page holding operation detecting step, further including a before-turning holding object page tag coloring step of coloring a tag for a holding object page that is held by the page holding operation with a different color from other tags in one tag display area that is displaying a tag appended to the current page, when the page holding operation is initially detected in the page holding operation detecting step.

Another exemplary aspect of the claimed invention (e.g., as recited in claim 25) includes a page turning process step of displaying the next display page set in the next display page setting step in place of the current page on the display unit, the page turning process step further including a holding object page tag display substep of displaying the tags appended to the current page that is an object of the turning process and the holding object pages held in the holding operation in a display format in accordance with a direction of the page turning process among those designated in the preceding page tag display format designating step or the succeeding page tag display format designating step within the information access area, following the transformation or movement of the current page in the current page turning process.

Another exemplary aspect of the claimed invention (e.g., as recited in claim 28) includes following the page holding operation detecting step, a tag holding circle display step of displaying a circle corresponding to the number of holding object pages in the page holding operation over a tag for which the page holding operation is detected, when the page holding operation is initially detected in the page holding operation detecting step.

Another exemplary aspect of the claimed invention (e.g., as recited in claim 29) includes an article information enlarging display step of displaying in enlargement the article information at a position indicated by the positional information on the display unit, in the case where the article information enlarging operation detecting signal is output in the article information enlarging operation detecting step.

Another exemplary aspect of the claimed invention (e.g., as recited in claim 38) includes a display controller for controlling the display of the page information stored in the electronic information memory on the basis of an operation content input into the touch panel, the display controller including an event driven display control portion for enabling the pages displayed on the touch panel to be changed on the basis of the time and locus from a pointer down to up on the touch panel, the event driven display control portion including a page selection function for each locus direction for selecting a page having a smaller page number or

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a larger page number than that of a page being displayed at present on the basis of the locus of pointer from said pointer down to up.

Another exemplary aspect of the claimed invention (e.g., as recited in claim 40) includes a page turning process control portion for effecting a page turning process by selecting one or more pages in accordance with an operation on the touch panel, wherein the continuous page prefetch control portion has a pages turning time deleting function of deleting the page data in plural pages from the cache memory, in the case where a page turning operation of plural pages is detected by the page turning process control portion.

Another exemplary aspect of the claimed invention (e.g., as recited in claim 42) includes a display controller including an event driven display control portion for selecting the page information of a page having a smaller page number or a larger page number than that of a page being displayed at present on the touch panel as a next page to be displayed at the next time on the basis of a locus from the pointer down to up on the touch panel.

Another exemplary aspect of the claimed invention (e.g., as recited in claim 46) includes a display controller including a tag appending portion for displaying a tag indicating the content of the page information stored in the electronic information memory on the touch panel; and a streaming time dynamic tag appending control portion for operating the tag appending portion as the page information is being received by the reception means.

Another exemplary aspect of the claimed invention (e.g., as recited in claim 49) includes semantically displaying the tag length to be shorter at the lower hierarchical level.

II.   THE ALLEGED PRIOR ART REFERENCES

A.   Henckel

The Examiner alleges that Henckel teaches the invention of claims 1-6, 12-13, 23, 28, 38, 40-41 and 46-47. However, there are features of the claimed invention that are not taught or suggested by Henckel.

Henckel discloses an interface for making information available to a user. The user turns the page of a displayed book by touching a screen with an object such as his hand or a pointing device and moving the object across the screen (Henckel at Abstract).

However, nowhere does Henckel teach or suggest a page turning operation detecting step which includes an operation rate calculating substep of calculating a page turning rate that is a speed of the page turning operation, and the page turning process step includes a display rate setting substep of setting a display rate corresponding to the page turning rate calculated in

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the operation rate calculating step to change the display from the current page to the next display page, as recited, for example, in claims 1, 4 and 5 (Application at paragraph [0096]).

Likewise, nowhere does Henckel teach or suggest a holding page number displaying step of displaying the total number of holding pages in accordance with the amount of the page holding operation on the display unit, when the page holding operation is initially detected in the page holding operation detecting step (e.g., as recited in claim 6), or a following the page holding operation detecting step, further including a before-turning holding object page tag coloring step of coloring a tag for a holding object page that is held by the page holding operation with a different color from other tags in one tag display area that is displaying a tag appended to the current page, when the page holding operation is initially detected in the page holding operation detecting step (e.g., as recited in claim 23), or a page turning process step of displaying the next display page set in the next display page setting step in place of the current page on the display unit, the page turning process step further including a holding object page tag display substep of displaying the tags appended to the current page that is an object of the turning process and the holding object pages held in the holding operation in a display format in accordance with a direction of the page turning process among those designated in the preceding page tag display format designating step or the succeeding page tag display format designating step within the information access area, following the transformation or movement of the current page in the current page turning process (e.g., as recited in claim 25), or following the page holding operation detecting step, a tag holding circle display step of displaying a circle corresponding to the number of holding object pages in the page holding operation over a tag for which the page holding operation is detected, when the page holding operation is initially detected in the page holding operation detecting step (e.g., as recited in claim 28), or an article information enlarging display step of displaying in enlargement the article information at a position indicated by the positional information on the display unit, in the case where the article information enlarging operation detecting signal is output in the article information enlarging operation detecting step (e.g., as recited in claim 29), or a display controller for controlling the display of the page information stored in the electronic information memory on the basis of an operation content input into the touch panel, the display controller including an event driven display control portion for enabling the pages displayed on the touch panel to be changed on the basis of the time and locus from a pointer down to up on the touch panel, the event driven display control portion including a page selection function for each locus direction for selecting a page having a

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smaller page number or a larger page number than that of a page being displayed at present on the basis of the locus of pointer from the pointer down to up (e.g., as recited in claim 38), or a page turning process control portion for effecting a page turning process by selecting one or more pages in accordance with an operation on the touch panel, wherein the continuous page prefetch control portion has a pages turning time deleting function of deleting the page data in plural pages from the cache memory, in the case where a page turning operation of plural pages is detected by the page turning process control portion (e.g., as recited in claim 40), or a display controller including an event driven display control portion for selecting the page information of a page having a smaller page number or a larger page number than that of a page being displayed at present on the touch panel as a next page to be displayed at the next time on the basis of a locus from the pointer down to up on the touch panel (e.g., as recited in claim 42), or a display controller including a tag appending portion for displaying a tag indicating the content of the page information stored in the electronic information memory on the touch panel; and a streaming time dynamic tag appending control portion for operating the tag appending portion as the page information is being received by the reception means. (e.g., as recited in claim 46), or semantically displaying the tag length to be shorter at the lower hierarchical level (e.g., as recited in claim 49)

Clearly, these features are not taught or suggested by Henckel.

Indeed, in an exemplary aspect of the claimed invention (e.g., claim 1), the speed of making a dragging may correspond to the speed of page turning operation. This is not taught or suggested by Henckel. The claimed invention thus differs from Henckel at least in that feature and in its object.

In fact, Henckel merely discloses the following features: i) page turning operation performed by "swiping" the user's hand from right to left across the surface of the display device; ii) high speed flipping performed by dragging any four corner of the page; and iii) bookmarks that can be placed anywhere on the page.

On the other hand, an exemplary aspect of the claimed invention of the present application may include the following features: i) bolding plural pages by detecting the magnitude of a pressure applied to or by detecting the elapsed time of a depressing operation, and ii) displaying a tag of a page provided to the left and right of the page.

The above features of the exemplary aspect of the claimed invention of the present application are not disclosed or suggested by Henckel (or other cited references for that matter). Thus, skilled person in the art would not be motivated to combine Henckel and other

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cited references to obtain the technical features of the present invention.

Therefore, there are clearly features of the claimed invention that are not taught or suggested by Henckel. Therefore, the Examiner is respectfully requested to withdraw this rejection.

B.   Amro, Huffman, Kuzunuki and Lovett

The Examiner alleges that Henckel would have been combined with Amro to form the invention of claims 7-11, 25-27 and 48, with Huffman to form the invention of claims 29-30, 34-37 and 39, with Huffman and Kuzuniki to form the invention of claim 33, and with Lovett to form the invention of claims 42-25. However, these alleged references would not have been combined as alleged by the Examiner and even if combined, the alleged combination would not teach or suggest each and every feature of the claimed invention.

Indeed, these alleged references are completely <u>unrelated</u>, and no person of ordinary skill in the art would have considered combining these disparate references, <u>absent impermissible hindsight</u>.

In fact, <u>the alleged references provide no motivation or suggestion</u> to urge the combination as alleged by the Examiner. Indeed, these alleged references clearly do not teach or suggest their combination. Therefore, one of ordinary skill in the art would not have been so motivated to combine the alleged references as alleged by the Examiner. Therefore, the Examiner has <u>failed to make a prima facie case of obviousness</u>.

Moreover, neither Henckel, nor Amro, nor Huffman, nor Kuzunuki, nor Lovett, nor any alleged combination thereof teach or suggest <u>a page turning operation detecting step which includes an operation rate calculating substep of calculating a page turning rate that is a speed of the page turning operation, and the page turning process step includes a display rate setting substep of setting a display rate corresponding to the page turning rate calculated in the operation rate calculating step to change the display from the current page to the next display page</u>, as recited, for example, in claims 1, 4 and 5 (Application at paragraph [0096]).

Likewise, nowhere does Henckel teach or suggest <u>a holding page number displaying step of displaying the total number of holding pages in accordance with the amount of the page holding operation on the display unit, when the page holding operation is initially detected in the page holding operation detecting step</u> (e.g., as recited in claim 6), or <u>a following the page holding operation detecting step, further including a before-turning holding object page tag coloring step of coloring a tag for a holding object page that is held</u>

by the page holding operation with a different color from other tags in one tag display area that is displaying a tag appended to the current page, when the page holding operation is initially detected in the page holding operation detecting step (e.g., as recited in claim 23), or a page turning process step of displaying the next display page set in the next display page setting step in place of the current page on the display unit, the page turning process step further including a holding object page tag display substep of displaying the tags appended to the current page that is an object of the turning process and the holding object pages held in the holding operation in a display format in accordance with a direction of the page turning process among those designated in the preceding page tag display format designating step or the succeeding page tag display format designating step within the information access area, following the transformation or movement of the current page in the current page turning process (e.g., as recited in claim 25), or following the page holding operation detecting step, a tag holding circle display step of displaying a circle corresponding to the number of holding object pages in the page holding operation over a tag for which the page holding operation is detected, when the page holding operation is initially detected in the page holding operation detecting step (e.g., as recited in claim 28), or an article information enlarging display step of displaying in enlargement the article information at a position indicated by the positional information on the display unit, in the case where the article information enlarging operation detecting signal is output in the article information enlarging operation detecting step (e.g., as recited in claim 29), or a display controller for controlling the display of the page information stored in the electronic information memory on the basis of an operation content input into the touch panel, the display controller including an event driven display control portion for enabling the pages displayed on the touch panel to be changed on the basis of the time and locus from a pointer down to up on the touch panel, the event driven display control portion including a page selection function for each locus direction for selecting a page having a smaller page number or a larger page number than that of a page being displayed at present on the basis of the locus of pointer from the pointer down to up (e.g., as recited in claim 38), or a page turning process control portion for effecting a page turning process by selecting one or more pages in accordance with an operation on the touch panel, wherein the continuous page prefetch control portion has a pages turning time deleting function of deleting the page data in plural pages from the cache memory, in the case where a page turning operation of plural pages is detected by the page turning process control portion (e.g., as recited in claim 40), or a display controller including an event driven display control portion for selecting the page

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information of a page having a smaller page number or a larger page number than that of a page being displayed at present on the touch panel as a next page to be displayed at the next time on the basis of a locus from the pointer down to up on the touch panel (e.g., as recited in claim 42), or a display controller including a tag appending portion for displaying a tag indicating the content of the page information stored in the electronic information memory on the touch panel; and a streaming time dynamic tag appending control portion for operating the tag appending portion as the page information is being received by the reception means. (e.g., as recited in claim 46), or semantically displaying the tag length to be shorter at the lower hierarchical level (e.g., as recited in claim 49)

Clearly, these features are not taught or suggested by Amro, Huffman, Kuzumiki or Lovett.

1.   Amro

The Examiner attempts to rely on Figures 3 and 5A-5B in Amro to support his position.

Amro discloses simply a computer controlled display system in which a large cursor movement can be controlled by a small rolling of a finger on a touch display screen. This differs from the claimed invention of the present application in its feature and object.

Further, with respect to claim 25, the Examiner is not clear as to what he is alleging teaches the "tag" of the claimed invention. Indeed, the Examiner refers to "tabs" in Figures 3 and 5A-5B, but nowhere do these Figures depict a "tab".

In fact, these drawings simply depict a display screen structure for "bringing up" a displayed mouse pad (Amro at col. 2, lines 47-56). Nowhere do these Figures teach or suggest a "tag" appended to a current page, as in the claimed invention.

Further, assuming, arguendo, that the Examiner is attempting to equate the page titles "What's New", "What's Cool", and so forth, with a tag in the claimed invention, this is completely unreasonable. Indeed, nowhere does Amro teach or suggest calculating any features with respect to these titles. Amro certainly does not teach or suggest calculating a height of a tag.

Further, nowhere does Amro teach or suggest that the pages are numbered at all.

Therefore, it is completely unreasonable for the Examiner to assert that these page titles teach or suggest the features of the claimed invention.

Thus, Amro clearly does not make up for the deficiencies in Henckel.

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2.   Huffman

The Examiner attempts to rely on col. 13, lines 45-56 in Huffman to support his position. However, this is **completely unreasonable**.

Indeed, Huffman discloses an electronic book in which a user-initiated event selecting a portion of the text is received by the touchscreen and the touchscreen displays the portion of the text in a highlighted form.

An exemplary aspect of the claimed invention, on the other hand, may include displaying in enlargement the article information selected from the data of one page (e.g., claim 29). This feature and its object are not taught or suggested by Huffman.

In fact, col. 13, lines 45-56 in Huffman simply teaches a portion 330 of text selected by a user-initiated event of sliding his finger 212, and upon the selection the portion 330 of the text is highlighted.

Therefore, Huffman certainly does not teach or suggest the features of the claimed invention.

Thus, Huffman clearly does not make up for the deficiencies in Henckel.

3.   Kuzunuki

The Examiner attempts to rely on col. 13, lines 1-9 and Figures 14a and 14b in Kuzunuki to support his position. However, this is **completely unreasonable**.

Indeed, Kuzunuki discloses an information processing system including a desk with a planar display unit which also accommodates physical objects to be manipulated by the operator's gesture. This feature and its object are not related to the claimed invention.

Further, with respect to claim 33 of the present Application, no description which is relevant to claim 33 can be found in Kuzunuki (e.g., Kuzunuki does not teach or suggest the invention of claim 33).

In fact, column 13, lines 1-9 in Kuzunuki simply teaches switching a mode to a page handling mode, but when a pen is held, inhibiting switching to a page handling mode and permitting switching to a document/editing processing mode. Further Figures 14a-14b simply depict using a stylus pen 109 to input characters from a moved image object 104, and switching stylus pen 109 from an input mode to a editing mode to edit characters and figures that are already input.

That is, nowhere in this passage or these drawings or anywhere else, does Kuzunuki teach or suggest the features of the claimed invention.

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Thus, Kuzunuki clearly does not make up for the deficiencies in Henckel and Huffman.

4.   Lovett

The Examiner attempts to rely on Figures 3, 4 and 7 and col. 5, lines 35-49 in Lovett to support his position. However, this is **completely unreasonable**.

Indeed, Lovett discloses an architecture for processing an XML tree. Its feature and object are different from those of the claimed invention of the present application. Lovett fails to disclose or suggest converting a tree into a one-dimensional book structure by searching the tree in a predetermined search order, which may be included in an exemplary aspect of the claimed invention.

In fact, Lovett simply teaches an architecture for processing an XML document. In particular, Lovett teaches a system 40 in which XML documents are exchanged between a client 42 and server 44. The system 40 includes a parser 54 which parses the XML data stream (Lovett at col. 5, lines 8-48).

Lovett is clearly <u>unrelated to the claimed invention</u>, and certainly does not teach or suggest the features of the claimed invention.

Thus, Lovett clearly does not make up for the deficiencies in Henckel.

Therefore, these alleged references would not have been combined as alleged by the Examiner and even if combined, the alleged combination would not teach or suggest each and every feature of the claimed invention. Therefore, the Examiner is respectfully requested to withdraw this rejection.

V.   FORMAL MATTERS AND CONCLUSION

In view of the foregoing, Applicant submits that claims 1-2, 4-13 and 23-53, all the claims presently pending in the application, are patentably distinct over the prior art of record and are in condition for allowance. The Examiner is respectfully requested to pass the above application to issue at the earliest possible time.

Should the Examiner find the application to be other than in condition for allowance, the Examiner is requested to contact the undersigned at the local telephone number listed below to discuss any other changes deemed necessary in a <u>telephonic or personal interview</u>

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The Commissioner is hereby authorized to charge any deficiency in fees or to credit any overpayment in fees to Attorney's Deposit Account No. 50-0481.

Respectfully Submitted,

Date: 2/26/08

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<u>**CERTIFICATE OF FACSIMILE TRANSMISSION**</u>

I hereby certify that the foregoing Amendment was filed by facsimile with the United States Patent and Trademark Office, Examiner Anil N. Kumar, Group Art Unit # 2174 at fax number (571) 273-8300 this __26th__ day of __February__, 2008.

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